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POWER CONTROL SYSTEM FOR FUSING SYSTEM WITH EXTERNAL HEATER

BACKGROUND OF THE INVENTION

[0001] Reproduction apparatus, such as electrostatographic copier/duplicators, printers or the like often employ a fuser apparatus for forming an image on an image medium. One type of fuser apparatus includes a heated fuser roller and pressure roller system for fusing a developed image on a medium passing between the fuser and pressure roller. Typically, the heated fuser roller is heated using a heater internal to the roller. The pressure roller may or may not be heated.

[0002] Fusing systems using an external heater roller for heating a fuser roller are also known. For example, U.S. Patent Nos. 6,016,410, 6,289,185 and 6,304,740 all disclose a fuser roller, pressure roller and a heating roller external to and in contact with the fuser roller to apply heat to the fuser roller.

BRIEF DESCRIPTION OF THE DRAWINGS

[0003] Figure 1 is a schematic illustrating a fusing system according to an exemplary embodiment of the invention.

[0004] Figures 2A and 2B are a flow diagram illustrating a method of controlling temperature for a fusing system according to an exemplary embodiment of the invention.

[0005] Figure 3 is a circuit diagram illustrating a control circuit of a fusing system according to an exemplary embodiment of the invention.